

SMAGIN, B.I.; BERKOVA, N.M., otv.red.; NAYDENOVA, I.G., tekhn.red.

[Universal energy; collection of stories on electricity]
Universal'naia energiya; sbornik rasskazov ob elektrichestve.
Moskva, Gos.izd-vo detskoi lit-ry M-va prosv.RSFSR, 1959.
364 p. (MIRA 13:7)
(Electricity--Juvenile literature)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

ARTEM'YEV, I.A.; BERKOVA, N.M., otv.red.; SMAGIN, B.I., otv.red.;
PROZOROVSKAYA, R.I., tekhn.red.

[Rader in everyday use] Budni radiolokatsii. Moskva, Gos.
izd-vo detskoi lit-ry M-va prosv.RSFSR, 1960. 286 p.
(MIRA 14:4)

(Rader)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

BERKOVA, N.M.; SIMONOV, Ye.D., red.; GIPPENREYTER, Ye.B., red.;
KIZEL', V.A., red.; KUZ'MIN, K.K., red.; LETAVET, A.A., red.;
POLYAKOV, A.I., red.p ROTOTAYEV, P.S., red.; FILIMONOV, L.N.,
red.; KHIGIAN, A.Kh., red.; YUKHIN, I.V., red.; KONOVALYUK,
I.K., mlad. red.; GOLITSYN, A.V., red. kart; ARDANOVA, N.P.
tekhn. red.

[Conquered summits; Soviet alpinism between 1958 and 1961] Po-
beshdennye vershiny; sbornik sovetskogo al'pinizma, 1958-1961.
Moskva, Geografgiz, 1963. 406 p. (MIRA 16:6)
(Mountaineering)

OSMACHEK, A., general-major aviatsii, voyennyy letchik pervogo klassa;
BERKOVCHENKO, A., inzhener-podpolkovnik, kand. tekhn. nauk;
DARMOGRAY, V., podpolkovnik; GAKH, A., inzhener-podpolkovnik

On ground target. Av. i kosm. 45 no. 6:45-49 '62.
(MIRA 15:10)

(Bombing, Aerial)

HERKOVIC, D.

Yugoslavia (430)

Science

One more contribution to the theme of calculating the factors "a" and "b", p. 12. Geodetska Sluzba Narodne Republike Srbije, Vol. 3, no. 1, January-June 1952.

East European Accessions List, Library of Congress, Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.

APR 18 1951		PROCESSES AND PROPERTY INDEX		APR 18 1951	
BC				18-3-2	
<p>Application of "Norit Special-D" in the magnetite reduction of hematite (Lilly et al., U.S. Pat. No. 2,486,432). In the experiments reported during the 1939 conference, Lilly et al. found that "Norit Special-D" was effective in reducing hematite with a minimum of heat. The results were as follows: The resulting product contained 30% iron in the usual way. Advantages of this treatment were that the rate of the process obtained was 25% < ordinarily, making it possible to save energy. It was compared with the second method of roasting and the run-off from the roaster was 10% greater. In this way, a high-quality hematite product could be obtained at a low cost. Other advantages were that the density of hematite and concentrate was increased by 10% and that frothing in the concentrator was eliminated, and that the rate of filtration of the concentrate was increased by as much as 20%. Heating in the evaporator was about the same as ordinarily, but was lower. There was a decided time saving on the result of the treatment. The quantity of steam required amount of steam consumed.</p> <p style="text-align: right;">J. P. O.</p>					
ASH-LA METALLURGICAL LITERATURE CLASSIFICATION					
ROOM 117-103164		E-Z-FILE		E-Z-FILE	
194804 14		1151000 HAF GRV GM	10011001	1001111 GM GRV LS	
COL 1	COL 2	COL 3	COL 4	COL 5	COL 6
D	H	D	D	M	S

PIERRE M

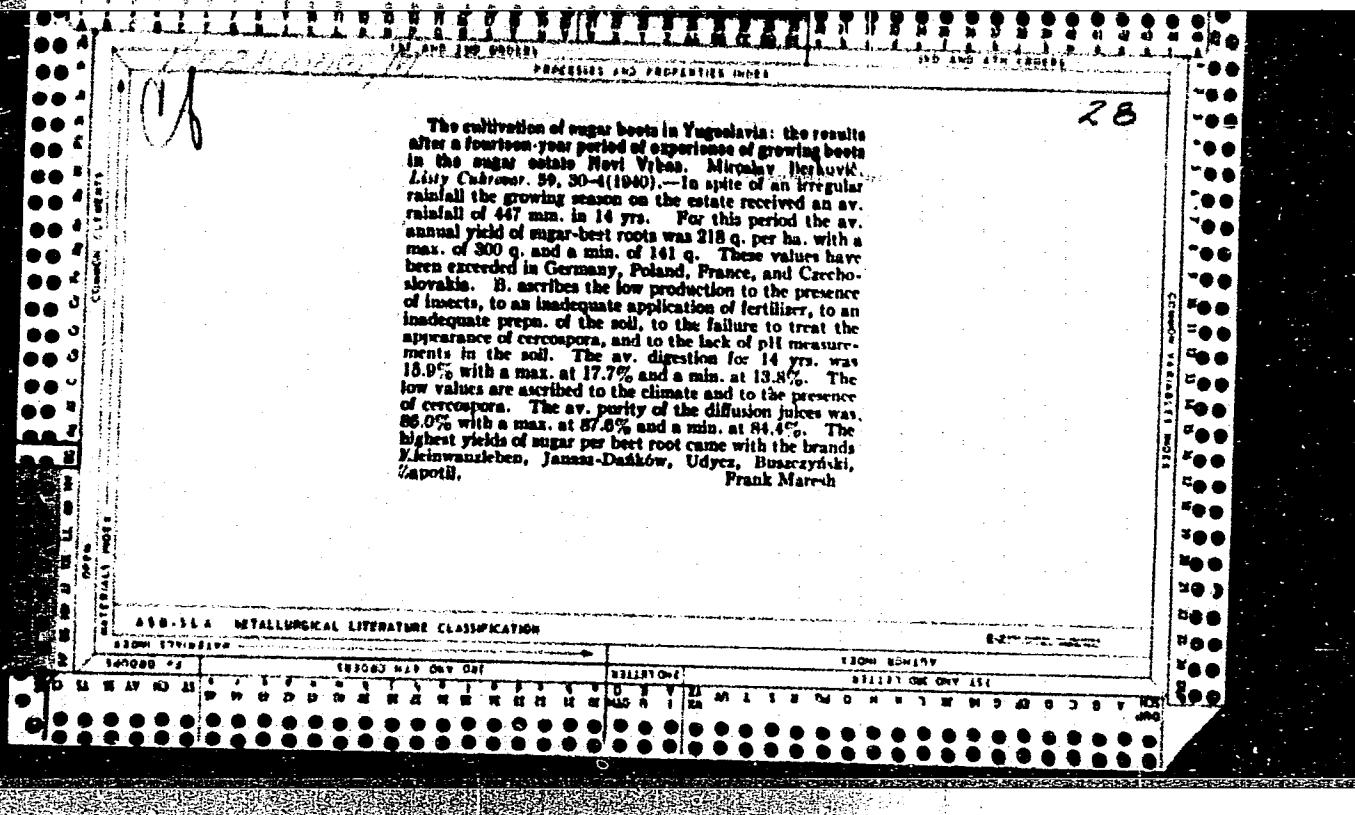
PROBLEMS AND PROSPECTIVES UNDER

Decolorizing juices with Norite Special D in the evaporator during the 1938 campaign. Miroslav Berkovic, Ljiljana Cakrovic, 57, 241-81 (in German, 248-9) (1939). During the 1938 season in Novi Vrbas, Jugoslavia, B. operated a sugar mill without norite for 8 days and then continued for 46 consecutive days with Norite Special D (0.009% on beets) and SO_3 (6 kg. S per 1000 q. of beets). Without norite and SO_3 , the color of the heavy juices ranged from 20 to 29° St.; with norite and SO_3 , the color of heavy juices was 11-20°. The employment of norite and SO_3 increased the capacity of the evaporators and of the centrifuges, diminished the surface tension and the foaming in the evaporators, formed porous filter cakes, which reduced the time for filtering from 85 to 57 hrs., left soft and easily removed incrustations in the evaporator tubes, and removed the Ca salts. The dangers of forming invert sugar were minimized, for the juices without norite possessed 0.200% invert sugar, while those with norite + SO_3 contained 0.270% invert sugar. Among the disadvantages of using norite + SO_3 is an increase in the consumption of Na_2CO_3 (from 23.9 to 29 kg. per 10 carloads of beets) and of NaOH (from 6.48 to 9.5 kg.). Likewise, in juices with a low quotient and with a high (0.12%) Ca content, the norite with SO_3 actually stimulated the formation of color.

Frank Marvsh

The cultivation of sugar beets in Yugoslavia: the results after a fourteen-year period of experience of growing beets in the sugar estate Novi Virban. Mikrošev, Ikerović, Listy Čakovec, 59, 30-4 (1940).—In spite of an irregular rainfall the growing season on the estate received an average rainfall of 447 mm. in 14 yrs. For this period the av. annual yield of sugar-beet roots was 218 q. per ha. with a max. of 300 q. and a min. of 161 q. These values have been exceeded in Germany, Poland, France, and Czechoslovakia. B. ascribes the low production to the presence of insects, to an inadequate application of fertiliser, to an inadequate prepa. of the soil, to the failure to treat the appearance of cercospora, and to the lack of pH measurements in the soil. The av. digestion for 14 yrs. was 18.9% with a max. at 17.7% and a min. at 13.8%. The low values are ascribed to the climate and to the presence of cercospora. The av. porosity of the diffusion juice was, 86.0% with a max. at 87.6% and a min. at 84.4%. The highest yields of sugar per beet root came with the brands Zelenjanenboen, Janasz-Dankow, Udyce, Biuczyński, Zapoli, Frank Marcell.

Frank Marrah



BERKOVIC, Petar, dr.; STRINOVIC, Branko, dr.

Synovectomy and the rehabilitation of rheumatic joints in
children. Reumatizam 12 no.3:94-100 '65

1. Ortopedski odjel djecje bolnice Kantrida, Rijeka.

BERKOVIC, Zagerka; NIKOLIC, Jeljana; LOPATIC, Ljubica

Tomanol therapy of inflammatory and other forms of rheumatism.
Srpski arh. celok. lek. 92 no.2:117-126. F'64.

1. Poliklinika "Boris Kidric" u Beogradu (Upravnik: prim.dr.
Zagerka Berkovic).

BERKOVICH; A.I.

ZANOVICH, T.D.; BLIZNICHENKO, A.G.; ZARUBINA, L.V.; MSTIBOVSKIY, S.A.;
BERKOVICH, A.I.; DUSHKEVICH, I.P.

Leptospira canicola infections in one of the precincts of Rostov-on-Don. Zhur. mikrobiol. epid. i immun 28 no.2:100-104 F '57
(MLRA 10:4)

1. Iz Instituta epidemiologii, mikrobiologii i gigiyeny,
Gorodskoy i rayonnoy sanitarno-epidemiologicheskoy stantsii
Rostova-na-Donu.

(LEPTOSPIROSIS, epidemiol.

Leptospira canicola infect. in Russia)

L 3465-66 EMP(f)/T-2/ETC(m) WW

ACCESSION NR: AP5024138

UR/0096/65/000/010/0063/0068

621.165.533.6.001.24

AUTHOR: Zavadovskiy, A. M. (Candidate of technical sciences); Berkovich, A. L.
(Engineer)

TITLE: Some questions in the investigation of grids of turbine profiles

SOURCE: Teploenergetika, no. 10, 1965, 63-68

TOPIC TAGS: turbine design, thermodynamics, steam turbine

47
44
B

ABSTRACT: To work out methods for the design and calculation of elements for the flow through section of a low pressure condensing turbine, it is necessary to create a series of high efficiency profiles for the guiding and operating vanes. An important part of this work is the perfecting of profile grids in special steam tubes. The article gives a survey of the basic problems involved in the modelling of a process involving flow past profile grids. The article first derives an expression for the loss coefficient in the superheated steam region. This is a measure of the power characteristics of the grid. The article goes on to consider the case where the process in the grid begins in the superheated steam region and ends in the wet steam region. Thermodynamic considerations lead to an express-

Card 1/2

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ACCESSION NR: AP5024138

ion for determination of the heat loss across an element of the grid area. Results show that the direction of the water and the steam in fixed grids and in operating vanes approximately coincide. This makes it possible to determine the angle of exit of the stream. The final expression derived for the loss coefficient characterizes the throughput capacity of the profile grid without the influence of end effects. Orig. art. has: 16 formulas and 3 figures

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut (Central Boiler Turbine Institute)

SUBMITTED: 00

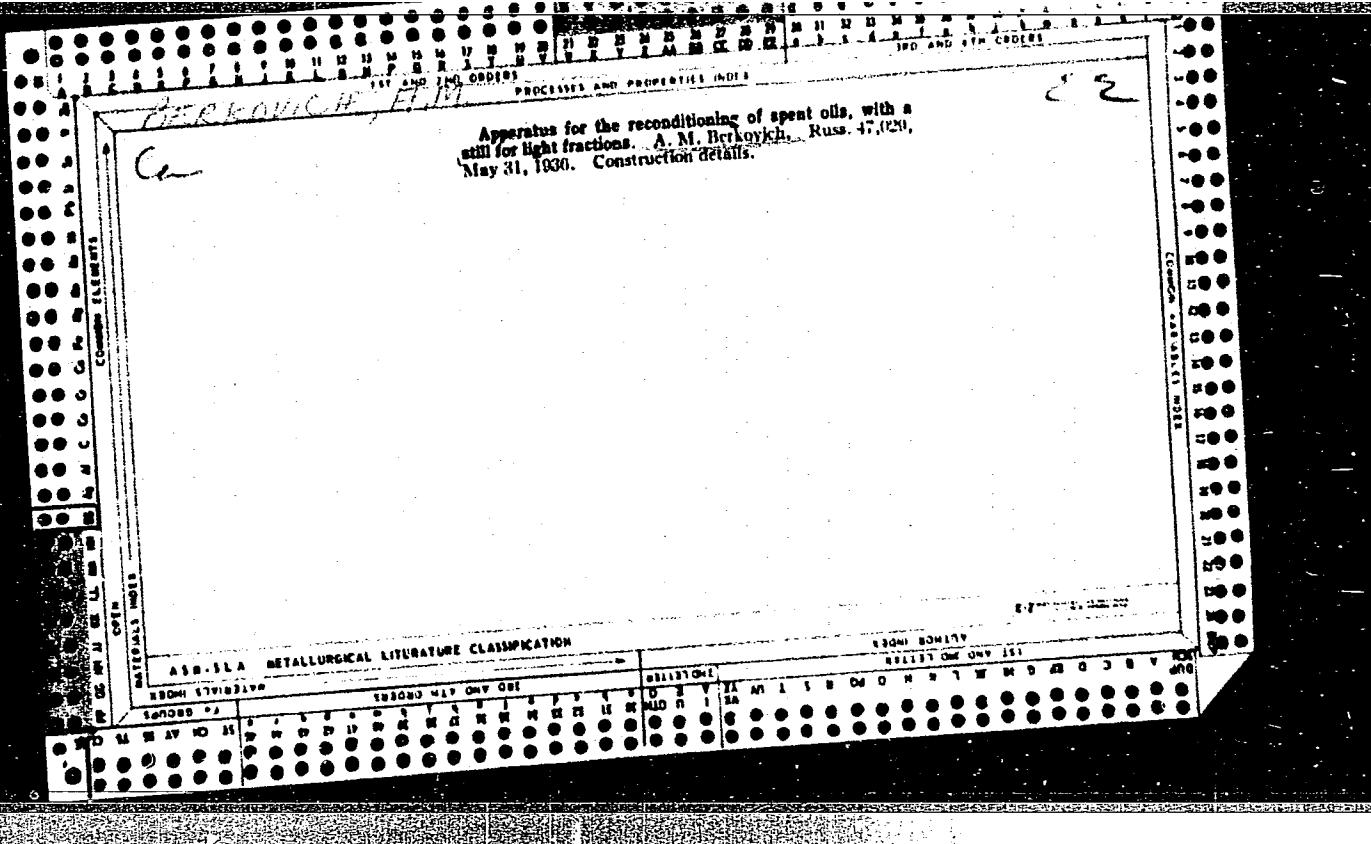
ENCL: 00

SUB CODE: PR, ME

NR REF SOV: 004

OTHER: 001

Card 2/2



1. BERKOVICH, B. I., KOMISSAROV, S. V.
2. SSSR (600)
4. Obolenskiy Region-Gypsum
7. Geological report on the prospecting for gypsum in the Obolenskiy region of the Tula Province.
[Abstract.] Izv. Glav. upr. geol. fon. No. 2, 1947
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

BERKOVICH, B.I.

YEVLAKHOVA, V.P.; GRITSAY, M.K.; LAVRENKO, Ye.M.; BERKOVICH, B.I.

Effectiveness of DDT and benzene hexachloride in control of mosquito fever in Ismail Province. Med. paraz. i paraz. bol. no. 4:334-338
0-D '54. (MLRA 8:2)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta malyarii i meditsinskoy parazitologii (dir. I.A.Izmail'skiy oblastnoy protivomalyariynoy stantsii (zav. I.N.Kitsis)

(FEVER,

mosquito fever, control in Russia with DDT & benzene hexachloride)

(MOSQUITOES,

mosquito fever, control in Russia with DDT & benzene hexachloride)

(DDT,

mosquito fever control in Russia)

(BENZENE HEXACHLORIDE,

mosquito fever control in Russia)

BERKOVICH, B. I.

GRITSAY, M.K.; LAVRENKO, Ye.M.; KOLMOGOROVA, V.V.; YEZHKOV, M.A.; BERKOVICH,
B.I.; LEKOVA, T.Kh.

Sandfly fever and its control in the areas of Odessa Province,
formerly Ismail' Province. Med.paraz. i paraz.hol. 26 no.1:71-73
Ja-F '57. (MLRA 10:6)

1. Iz Ukrainskogo instituta malyarii i meditsinskoy parazitologii
imeni prof. V.Ya.Rubashkina (dir. instituta I.A.Demchenko) i
parazitologicheskikh otdeleniy Ismail'skoy gorodskoy, Reniyskoy i
Bolgradskoy rayonnykh sanitarno-epidemiologicheskikh stantsiy.
(PAPPATACI FEVER, prev. and control
in Russia)

KONTOROVSKAYA, T.M.; BERKOVICH, B.I.; BERKOVICH, Ye.I.

Congenital malaria. Med. paraz. i paraz. bol. 27 no.4:491 Jl-Ag '58.
(MIRA 12:2)

l. Iz Ukrainskogo nauchno-issledovatel'skogo instituta malyarii i medi -
tsinskoy parazitologii imeni prof. V.Ya. Rubashkina, Reniyskogo rodil'nogo doma
i Reniyskoy rayonnoy malyariynoy stantsii.

(MALARIA, epidemiology,
congen., in Russia (Rus))

KRAMSKOV, F.P.; BERKOVICH, B.I.

Activity of volunteer councils in the drugstores of Leningrad Province. Apt.delo 14 no.2:53-56 Mr.Ap '65.
(MIRA 19:1)

1. Leningradskoye oblastnoye aptechnoye upravleniye.

BERKOVICH, D.M.; ZVORYKIN, A.A.

Some tendencies in the development of the technology of
modern machine construction. Vop. ist.est. i tekhn. no.1:
168-178 '56.

(MILRA 9:10)

(Machinery industry)

~~HERKOVICH, David Mikhaylovich; MALOV, A.N., nauchnyy redaktor; LYUBIN-SHATA, A.G., redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor.~~

[Automatic assembly lines in machinery manufacture] Avtomatičeskie linii v mashinostroenii. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervisdat, 1956. 105 p. (MIRA 10:6)
(Assembly-line methods) (Machinery industry)

BERKOVICH, D.M.; ZVORYKIN, A.A.

Trends in the technological development of the contemporary machine construction industry. Vop.ist.est. i tekhn. no.2:207-216 '56.

(MIRA 10:1)

(Mechanical engineering) (Machinery--Construction)

BERKOVICH, David Mikhaylovich; ISLANKINA, T.F., redaktor; GUBIN, M.I.,
tekhnicheskiy redaktor

[Soviet machinery industry during the past forty years] Sovetskoe
mashinostroenie za 40 let. Moskva, Izd-vo "Znanie," 1957. 62 p.
(Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i
nauchnykh znanii. Ser. 4, nos. 17/18) (MLRA 10:9)
(Machinery industry)

BERKOVICH, D.M., kand.tekhn.nauk.

The progress of Soviet technology during the past forty years.
Politekh.obuch. no.11:22-31 N '57. (MIRA 10:10)
(Technology)

BERKOVICH, D.M.

124-1957-2-1524

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 12 (USSR)

AUTHOR: Berkovich, D.M.

TITLE: On N. Ye. Zhukovskiy's Auxiliary Lever Method (O metode vspomogatel'nogo rychaga N. Ye. Zhukovskogo)

PERIODICAL: Dokl. L'vovsk. politekhn. in-ta, 1955, Vol 1, Nr 2, pp 55-57

ABSTRACT: Bibliographic entry

1. Mechanics 2. Mathematics

Card 1/1

BERKOVICH, D.M.

SOV/124-58-5-5017

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 11 (USSR)

AUTHOR: Berkovich, D.M.

TITLE: A Graphic Method of Determining the Train Values of Three-dimensional Lever-type Gear Linkages (Graficheskiy metod opredeleniya peredatocchnykh otnosheniy rychazhno-zubchatykh prostranstvennykh mekhanizmov)

PERIODICAL: Dokl. L'vovsk. politekhn. in-ta, 1957, Vol 2, Nr 1, pp 33-36

ABSTRACT: A three-dimensional linkage is replaced by a plane linkage equivalent to it (the equivalence criteria being stated), and the train values are then determined for the latter.

S.G. Kislytsyn

1. Mechanical drives--Analysis 2. Mechanics

Card 1/1

112-57-8-16251D

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 8, p 29 (USSR)

AUTHOR: Berkovich, D. M.

TITLE: Balancing Rotors by a Method of Experimental Determination of Their
Moments of Inertia (Uravnoveshivaniye rotorov metodom opytnogo opredeleniya
ikh momentov inertsii)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of
Candidate of Technical Sciences, presented to L'vovsk. politekhn. in-t (the
L'vov Polytechnic Institute), L'vov, 1956.

ASSOCIATION: L'vovsk. politekhn. in-t (the L'vov Polytechnic Institute)

Card 1/1

BERKOVICH, D.M.

SOV/124-58-4-3751

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p 13 (USSR)

AUTHOR: Berkovich, D. M.

TITLE: The Balancing of Rotors Having Axially Movable Components
(Uravnoveshivaniye rotorov s osevoy podvizhnost'yu ikh sostavnykh chastej)

PERIODICAL: V sb.: Nekotoryye vopr. dinamiki mashin. L'vov, un-t,
1956, pp 134-137

ABSTRACT: Bibliographic entry

1. Rotating structures--Stabilization

Card 1/1

BERKOVICH, D.M.

YEMEL'YANOV, V.S., otv.red.; BARDIN, I.P., red.; VINOGRADOV, A.P., red.; GOL'DANSKIY, V.I., red.; GULYAKIN, I.V., red.; DOLIN, P.I., red.; YEFREMOV, D.V., red.; KRASIN, A.K., red.; LEBEDINSKIY, A.V., red.; MINTS, A.L., red.; MURIN, A.N., red.; NIZE, V.E., red.; NOVIKOV, I.I., red.; SEMENOV, V.F., red.; SOBOLEV, I.N., red.; BAKHAROVSKIY, G.Ya.; nauchnyy red.; BERKOVICH, D.M., nauchnyy red.; DANOVSKIY, N.F., nauchnyy red.; DELONE, N.N., nauchnyy red.; KON, M.A., nauchnyy red.; KOPYLOV, V.N., nauchnyy red.; MANDEL'TSVAYG, Yu.B.; MILOVIDOV, B.M., nauchnyy red.; MOSTOVENKO, N.P., nauchnyy red.; MURINOV, P.A., nauchnyy red.; POLYAKOV, I.A., nauchnyy red.; PREOBRAZHENSAYA, Z.P., nauchnyy red.; RABINOVICH, A.M., nauchnyy red.; SIMKIN, S.M., nauchnyy red.; SKVORTSOV, I.M., nauchnyy red.; SYSOYEV, P.V., nauchnyy red.; SHORIN, N.A., nauchnyy red.; SHREYBERG, G.L., nauchnyy red.; SHTEYNMAN, R.Ya., nauchnyy red.; KOSTI, S.D., tekhn.red.

[Concise atomic energy encyclopedia] Kratkaia entsiklopediia "Atomnaia energiya." [Tables of isotopes (according to published data available at the beginning of 1958)] Tablitsa izotopov (po dannym, opublikovannym k nachalu 1958. 12 p. Gos. nauch. izd-vo "Bol'shaia sovetskaia entsiklopedia," 1958. 610 p. (MIRA 12:1)

1. Sotrudniki Bol'shoi Sovetskoy Entsiklopedii (for Bakharovskiy, Berkovich, Danovskiy, Delone, Kon, Kopylov, Mandel'tsvayg, Milovidov, Mostovenko, Murinov, Polyakov, Preobrazhenskaya, Rabinovich, Simkin, Skvortsov, Sysoyev, Shorin, Shreyberg, Shteynman).
(Atomic energy)

BERKOVICH, D.M.

SOV/124-58-4-3752

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 4, p 13 (USSR)

AUTHOR: Berkovich, D. M.

TITLE: The Balancing of Rotors by Means of the Method of Experimental Determination of Their Moments of Inertia (Uravnoveshivaniye rotorov metodom opytnogo opredeleniya ikh momentov inertsii)

PERIODICAL: Dokl. L'vovsk. politekhn. in-ta, 1957, Vol 2, Nr 1, pp 37-43

ABSTRACT: Bibliographic entry

1. Rotating structures--Moments 2. Rotating structures--Stabilization

Card 1/1

BERKOVICH, David Mikhaylovich; VEL'KIN, Il'ya Yefimovich; MAKSIMOV, I.S.,
red.; SHIROKOVA, M.M., tekhn.red.

[Automation is the general trend in the development of mechanical
engineering] Avtomatisatsiya - general'noe napravlenie razvitiia
tekhniki. Moskva, Gos. plenizdat, 1960. 123 p.

(Automation)

(MIRA 13:11)

DUZ', Petr Dmitriyevich; SEMENOV, V.A., prof., doktor tekhn.nauk,
general-major, zasluzhennyy deyatel' nauki i tekhniki,
retsenzent; GROMOV, M.M., prof., general-polkovnik, retsenzent;
ANOSHCHENKO, N.D., prof., retezenzent; BURKOVICH, D.M., kand.
tekhn.nauk, red.; BELEVTSYVA, A.G., izdat.red.; ROZHIN, V.P.,
tekhn.red.

[History of aeronautics and aviation in the U.S.S.R.; period of
the First World War, 1914-1918] Iстория воздухоплавания и
авиации в СССР; период Первой мировой войны, 1914-1918 гг.
Moskva, Gos.sachno-tekhn.izd-vo Oborongiz, 1960. 298 p.

(Aeronautics--History)

(MIRA 13:11)

KASHUBSKIY, L.D.; POPOVA, G.N.; BERKOVICH, D.M., nauchnyy red.;
YEVTIGNEYEVA, V.S., tekhn. red.

[Presently manufactured Soviet equipment for industrial initial
counting and information transmission] Sredstva pervichnogo sche-
ta i peredachi informatsii v proizvodstve vypuskaemye promyshlen-
nost'iu SSSR; obzor. Moskva, 1961. 147 p. (MIRA 15:12)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po voprosam
truda i zarabotnoy platy. 2. Nauchno-issledovatel'skiy institut
truda Gosudarstvennogo komiteta Soveta Ministrov SSSR po vopro-
sam truda i zarabotnoy platy (for Kashubskiy, Popova).
(Automatic control) (Counting devices)

BERKOVICH, David Mikhaylovich, kand. tekhn. nauk; IVANOV, S.M.,
red.; RAKITIN, I.T., tekhn. red.

[Machines control machines] Mashiny upravliaiut mashinami.
Moskva, Izd-vo "Znanie," 1962. 45 p. (Novoe v zhizni,
nauke, tekhnike. IV Seriya: Tekhnika, no.19) (MIRA 15:11)
(Automation) (Cybernetics)

BERG, A.I., glav. red.; TRAPEZNICKOV, V.A., glav. red.; BERKOVICH, D.M., zam glav. red.; LERNER, A.Ya., doktor tekhn. nauk, prof., zam. glav. red.; AVEN, O.I., red.; AGEYKIN, D.I., red.; kand. tekhn. nauk, dots., red.; AYZERMAN, M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, prof., red.; VORONOV, A.A., doktor tekhn. nauk, prof., red.; GAVRILOV, M.A., doktor tekhn. nauk, prof., red.; ZERNOV, D.V., red.; IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A.I., kand. tekhn. nauk, red.; KOGAN, B.YA., doktor tekhn. nauk, red.; KOSTOUSOV, A.I., red.; KRIMITSKIY, N.A., kand. fiz.-mat. nauk red.; LEVIN, G.A., prof. red.; LOZINSKIY, M.G., doktor tekhn. nauk, red.; LOSSEIEVSKIY, V.L., red.; MAKSAREV, Yu.Ye., red.; MASLOV, A.A., dots., red.; POPKOV, A.A., red.; RAKOVSKIY, M.Ye., red.; ROZENBERG, L.D., doktor tekhn. nauk, prof., red.; SOTSKOV, B.S., red.; TIMOFEEV, P.V., red.; USHIAKOV, V.B., doktor tekhn. nauk, red.; FEL'DBAUM, A.A., doktor tekhn. nauk, prof., red.; FROLOV, V.S., red.; KHARKEVICH, A.A., red.; KHRAMOV, A.V., kand. tekhn. nauk, red.; TSYFKIN, Ya.Z., doktor tekhn. nauk, prof., red.; CHELYUSTKIN, A.B., kand. tekhn. nauk, red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, dots., red.; BOCHAROVA, M.D., kand. tekhn. nauk, starshiy nauchnyy red.; DELONE, N.N., inzh., nauchnyy red.; BARANOV, V.I., nauchnyy red.; PAVLOVA, T.I., tekhn. red.

[Industrial electronics and automation of production processes] Avtomatiatsiia proizvodstva i promyshlennia elektronika. Glav. red. A.I. Berg i V.A. Trapeznikov. Moskva, Gos.nauchn. izd-vo "Sovetskaia Entsiklopediya." Vol.1. A - I. 1962. 524 p.

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S/044/62/000/007/085/100
G111/G333

AUTHOR: Berkovich, D. M.

TITLE: On the application of the cybernetic technique to the synthesis of mechanisms

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 73,
abstract 7V350. ("Dokl. L'vovsk. politekhn. in-ta", 1961,
5, no. 1, Mekhanika, 80-83)

TEXT: The complete synthesis of a mechanism is broken down into two main steps by the author: the choice of the principle scheme and the choice of the cinematic scheme. Two methods of applying computers are discussed. In the first case the machine conducts the numerical calculation of the variants of the mechanism which have been suggested by a person, who gives the machine the program of the calculations in advance and then works out the comparative estimate of the results according to A. Walter and G. Schappert (Rzh. Mat., 1961, 11V294) himself. In the second case the person prescribes the aim and the basic data of the mechanism. The machine itself does all necessary calculations of the various variants of the mechanism and determines

Card 1/2

S/044/62/000/007/085/100

On the application of the cybernetic ... C111/C333

the optimal variant according to the prescribed criteria. The basic synthesis element with which the machine operates is -- in the opinion of the author -- the structure group. It is suggested that all applied and all applicable structure groups be systematized in a certain manner. Such a systematization would be the first step in a theory of the synthesis of mechanisms. As a second step the author names the formulation of typical problems; a third step would be the formulation of algorithms to solve the above problems; and the last step would be the development of an appropriate program for a concrete electronic computer and the practical testing of the solutions.

[Abstracter's note: Complete translation.]

Card 2/2

BERKOVICH, David Moiseyevich; BESPALOV, K.I., red.; KOMAROV, M.S.,
red.; NEFEDOV, A.F., red.; RABINOVICH, A.N., red.; SHATS,
Ya.Yu., red.; FURER, P.Ya., red.; GORNOSTAYPOL'SKAYA, M.S.,
tekhn. red.

[Inertial forces in engineering and their balancing] Sily
inertsii v tekhnike i ikh uravnoveshivanie. Moskva, Mash-
giz, 1963. 99 p. (MIRA 16:4)

(Moment of inertia)
(Balancing of machinery)

KUZNETSOV, V.S.; PONOMAREV, V.A.; KUZ'MIN, V.V., inzh., retsenzent;
BERKOVICH, D.M., kand. tekhn. nauk, red.

[System of multipurpose attachments with interchangeable
parts used in the machinery industry] Sistema universal'no-
sbornykh prisposoblenii v mashinostroenii. Moskva, Mashino-
stroenie, 1964. 269 p. (MIRA 17:12)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

BERKOVICH, D.M.

Brief news. Avtom. i telem. 25 no.11:1633-1638 N '64
(MIRA 18:1)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

BERKOVICH, D.M., kand. tekhn. nauk

Some results of the development of automation and remote control;
anniversary session. Vest. AN SSSR 34 no.10:113-114 O '64.

(MIRA 17:11)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

~~BERKOVICH, E.L.~~

"Studies on the history of Russian psychology", edited by
M.V. Sokolov. Reviewed by E.L. Berkovich. Vop. psichol. 5
no.3:151-154 My-Je '59.
(Psychology)
(Sokolov, M.V.)
(MIRA 12:9)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

BERKOVICH, F.D.

Solution of one class of infinite systems of linear algebraic
equations. Trudy NPI 109:11-20 '60.
(Algebra, Linear) (MIRA 14:3)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

BERKOVICH, F.D.

Solution to an infinite system of linear algebraic equations in
a class of growing sequences. Dokl.AN SSSR 149 no.3:495-498
Mr '63. (MIRA 16:4)

1. Predstavleno akademikom P.Ya.Kochinoy.
(Linear equations) (Sequences (Mathematica))

ACCESSION NR: AR4031074

S/0044/64/000/002/B099/B099

SOURCE: Referativnyy zhurnal. Matematika, Abs. 2B389

AUTHOR: Berkovich, E. D.

TITLE: A solution of an infinite system of linear algebraic equations in a class of increasing sequences

CITED SOURCE: Uch. zap. Kabardino-Belkarsk. un-t, vyyp. 16, 1962, 83-88

TOPIC TAGS: linear algebraic equation, increasing sequence, sequence Banach space, series convergence, Karleman boundary value problem, convolution type integral equation

TRANSLATION: $\mathcal{L}(s)$ designates a normed ring of sequences of complex numbers $a = \{a_n\}_{-\infty}^{\infty}$, for which the following series converges:

$$\sum_{n=-\infty}^{\infty} |a_n| a_n, \quad (a_n = (1 + |n|)^s).$$

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ACCESSION NR: AR4031074

where s is a fixed integer, with norm

$$\sum_{n=-\infty}^{\infty} |a_n| a_n$$

and convolution

$$a_n \cdot b_n = a_n b_n - \left\{ \sum_{k=-\infty}^{\infty} a_{n-k} b_k \right\}_{-\infty}^{\infty}$$

in the capacity of multiplication. Associated with the ring $\mathcal{L}^{(s)}$ is the Banach space $m^{(s)}$ of sequences $f = \{f_n\}_{-\infty}^{\infty}$ such that

$$f_n = O((1 + |n|)^s), \quad (n = 0, \pm 1, \dots).$$

The author considers the infinite system of equations

$$\sum_{k=0}^{\infty} a_{n-k} / k + \sum_{k=0}^{\infty} b_{n+k} / k = c_n, \quad n = 0, \pm 1, \dots, \quad (1)$$

with the assumption that

$$(a_n)_{-\infty}^{\infty}, (b_n)_{0}^{\infty} \in \ell^1, \quad (c_n)_{0}^{\infty}, (1/n)_0^{\infty} \in \ell^1$$

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ACCESSION NR: AR4031074

It is proved that the system (1) is equivalent to the Karleman-type boundary value problem in a class of generalized functions (linear functionals over the space $W(s)$ of 2π -periodic, s -times continuously differentiable functions):

$$\begin{aligned} F^+(0)A(0) + F^+(-0)B(0) - F^-(0) + C(0), \\ (A(0), B(0) \in W_s, C(0) \in (W_s^{(s)})^*, A(0) \neq 0). \end{aligned}$$

The author sets up general (Noetherian) theorems on the solvability of system (1), and when the conditions

$$\sum_{k=-\infty}^{\infty} a_{n+k} a_k = \sum_{k=-\infty}^{\infty} b_{n+k} b_k \quad (n=0, \pm 1, \dots)$$

are fulfilled, this system reduces to two Karleman problems and is solved in closed form. It is proven that by an analogous method the system

$$\sum_{k=0}^{\infty} a_{n-k} a_k + \sum_{k=0}^{\infty} b_{n+k} b_k = C_n, \quad (n=0, \pm 1, \dots), \quad (2)$$

can be investigated, as well as the continual analogs of systems (1) and (2) - convolution-type integral equations. V. Rogozhin

Card 3/4

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

ACCESSION NR: AR4031074

DATE ACQ: 19Mar64

SUB CODE: MM

ENCL: 00

Card 4/4

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

ACCESSION NR: AR4031075

S/0044/64/000/002/B099/B099

SOURCE: Referativnyy zhurnal. Matematika, Abs. 2B390

AUTHOR: Berkovich, F. D.

TITLE: The solution of the Karleman boundary value problem in a class of generalized functions

CITED SOURCE: Uch. zap. Kabardino-Balkarsk. un-t, vy*p. 16, 1962, 88-93

TOPIC TAGS: Karleman boundary value problem, generalized function, Noether theorem, Riemann boundary value problem

TRANSLATION: For the Karleman boundary value problem

$$F^+(0)A(0) + F^+(-0)B(0) - F^-(0) + C(0), \quad 0 < 0 < 2\pi. \quad (1)$$

in a class of generalized functions (abs 2B389) and for the associated problem

Card 1/3

$$\Phi^+(0)A(-0) + \Phi^+(-0)B(0) - \Phi^-(0) \quad (2)$$

ACCESSION NR: AR4031075

the author sets up the theorems of Noether. In the case $A(-\theta) = \overline{A(\theta)}$, $|A(\theta)| > |B(\theta)|$ it is proven that for problems (1) and (2) the question of solvability reduces to the corresponding question for the Riemann problem, which is obtained from (1) and (2) when $B(\theta) \equiv 0$. If

$$A(\theta) A(-\theta) - B(\theta) B(-\theta) \neq 0,$$

then problem (1) is equivalent to the two Karleman problems:

$$\begin{aligned} F^-(\theta) - A(-\theta) B^{-1}(\theta) F^-(-\theta) + \\ + A(-\theta) B^{-1}(\theta) C(\theta) - C(-\theta). \end{aligned} \quad (3)$$

$$\begin{aligned} F^+(\theta) - -B(\theta) A^{-1}(\theta) F^+(\theta) + \\ + [F^-(\theta) + C(\theta)] A^{-1}(\theta). \end{aligned} \quad (4)$$

Using the substitution

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ACCESSION NR: AR4031075

problems (3) and (4) reduce to the Riemann boundary value problem, in the space of generalized functions, which is solved by the method of the abstractor (R Zh Mat, 1962, 6B140). It is noted that the indicated scheme can be used in investigating a boundary value problem of the form (1) for the half-plane and a problem of the type

$$A(\theta) F^+(\theta) + \overline{F^+(\theta)} B(\theta) - F^-(\theta) + C(\theta)$$

for the circle and half-plane. V. Rogozhin

DATE ACQ: 19Mar64

SUB CODE: MM

ENCL: 00

Card 3/3

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

L 25104.68

Among the following

Card 2/3

■ - ■■■ ■ A. (A). (6)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000204920018-5"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

L 07967-67 EWT(d) LJP(c)
 ACC NR: AP6018588

SOURCE CODE: UR/0140/66/000/003/0012/0023

27
B

AUTHOR: Berkovich, F. D. (Novocherkassk)

ORG: none

TITLE: Infinite system of linear algebraic equations with complex conjugate unknowns

SOURCE: IVUZ. Matematika, no. 3, 1966, 12-23

TOPIC TAGS: linear system, boundary value problem, linear equation, BANACH SPACE

ABSTRACT: Under the assumptions that the sequences $\{a_n\}_{-\infty}^{\infty}$ and $\{b_n\}_0^{\infty}$ are in ℓ_1 , a solution $\{\varphi_k\}_0^{\infty}$ of

$$\sum_{k=0}^{\infty} a_{n-k} \varphi_k + \sum_{k=0}^{\infty} b_{n+k} \bar{\varphi}_k = f_n \quad (n = 0, 1, \dots), \quad (1)$$

where $\{f_n\}_0^{\infty}$ is given, is sought in one of the spaces of the entire family (E_ϵ) (see M. G. Kreyn. Integral'nyye uravneniya na polupryamoy s yadrom, zavisyashchim ot raznosti argumentov. UMN, t. XIII. vyp. 5, 1958) of Banach spaces. Extensions to spaces other than ℓ_1 are also considered, always assuming satisfaction of

$$A(l) = A(e^{il}) = \sum_{n=-\infty}^{\infty} a_n e^{inl} \neq 0 \quad (-\pi < l < \pi).$$

Card 1/2

UDC: 517.948

L 07967-67

ACC NR: AP6018588

After reduction of (1) to a boundary value problem, the author finds effective methods of solution and proceeds to a qualitative study of the solution. Finally he extends to spaces other than ℓ_1 . Orig. art. has 33 formulas.

SUB CODE: 12/ SUBM DATE: 29Jan65/ ORIG REF: 018

Card 2/2 *ldh*

BERKOVICH, F.M.

The 1S63M twelve-spindle drilling, boring, and thread-cutting machine.
Biul. tekhn. ekon. inform. no. 9:35-37 '59. (MIRA 13:3)
(Drilling and boring machinery)
(Screw-cutting machines)

BERKOVICH, F.M.

The 3A377 three-sided six-spindle drilling and milling machine.
Biul.tekh.-ekon.inform. no.3:22-23 '60.

(Machine tools) (MIRA 13:6)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

BERKOVICH, F.M.; ZHITKOVA, S.A.

Conventional signs in hydraulic-drive drawings. Standartizatsiya
26 no.8:25-29 Ag '62. (MIRA 15:8)
(Oil hydraulic machinery)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

BERKOVICH, F.M.

Classification, realization and use of hydraulic drive
systems. Standartizatsiia 28 no.1:7-10 Ja '64.

(MIRA 17:1)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

Berkovich, G.

KATS, I., BERKOVICH, G.; TSINOVSKAYA, N.

Using potassium iodide in silver plating. Prom.koop. no.8:28-29
Ag '57. (MIRA 10:9)

1. Sotrudnik TSentral'noy nauchno-issledovatel'skoy laboratorii Ukrpromsoveta (for Kats).
2. Sotrudnik TSentral'noy nauchno-issledovatel'skoy laboratorii Ukrpromsoveta (for Berkovich).
3. Sotrudnik TSentral'noy nauchno-issledovatel'skoy laboratorii Ukrpromsoveta (for TSinovskaya).

(Silver-plating)

18.3200

75947
SOV/133-59-10-8/39

AUTHORS: Novikov, Ya. A., Sudoplatov, L. V., Berkovich, G. Ya.
TITLE: Application of Natural Gas in Open-Hearth Furnaces
PERIODICAL: Stal', 1959, Nr 10, pp 897-898 (USSR)
ABSTRACT: The plant (not named) tested the following methods of using natural gas in an open-hearth furnace: (1) partial replacement of coke oven gas by natural gas; (2) complete replacement, i.e., firing by natural gas with mazut addition; and (3) addition of natural cold gas into the port end to intensify the process. It was found that open-hearth furnaces work (1) on coke oven-natural gas mixture with a high methane content without adverse effects on performance figures; (2) on natural-blast furnace gas mixture without coke oven gas. Emissive properties of flame improved slightly, melting period decreased, and productivity was somewhat raised. The authors conclude that,

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Application of Natural Gas in Open-Hearth
Furnaces

75947

SOV/133-59-10-8/39

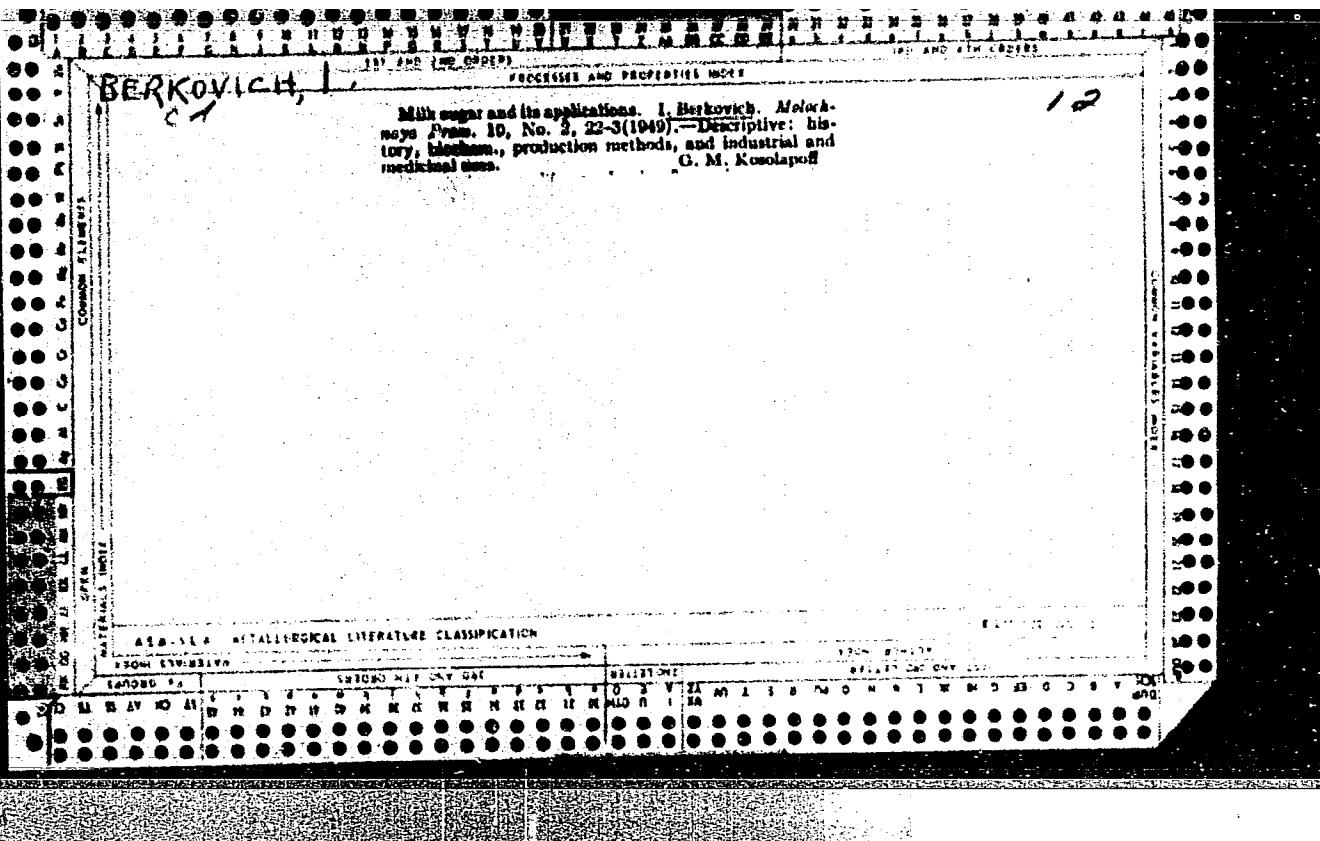
although the introduction of natural cold high-pressure gas at the initial stage of melting failed to produce the expected results due to improper gas supply and organizational difficulties, its use cuts the coke oven gas consumption considerably, and would be efficient after elimination of the shortcomings. In the near future, natural-open hearth furnace gas mixtures will be tested without flame carburization by mazut. There are 2 tables.

Card 2/2

SUDOPLATOV, L.V.; YASYUNAS, B.V.; BERKOVICH, G.Ya.

Transfer of lime cupolas to firing with natural gas. Metallurg 7
no.3:16-19 Mr '62. (MIRA 15:2)

1. Metallurgicheskiy zavod im. Petrovskogo.
(Cupola furnaces) (Gas, Natural)



B E R K O V I C H , I . B .

120-4-8/35

AUTHORS: Zhdanov, A.P., Berkovich, I.B., Lepekhin, F.G.,
Skirda, N.V. and Khokhlova, Z.S.

TITLE: Measurement of Small Angles in Nuclear Photoemulsions
(Izmereniye malykh uglov v yadernykh fotoemul'siyakh)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.4,
p.32 (USSR).

ABSTRACT: The problem of accurate measurement of angles between the primary and secondary tracks is associated with nuclear interactions of high-energy particles with nucleons and nuclei in nuclear photoemulsions. These angles are of importance in the comparison of experimental data with theoretical predictions and in the study of multiple production of particles. The coordinate method allows such a measurement to be carried out with sufficient accuracy in different cases. In general, when the beginning of the shower is outside the emulsion, the angular distribution can only be given relative to the axis of the shower which is taken to be coincident with the direction of motion of the primary particle. The angle θ between the i-th particle and the axis of the shower is in this case determined by the formula:

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Measurement of Small Angles in Nuclear Photoemulsions. ^{120-4-8/35}

$$\operatorname{ctg} \theta_i = \frac{\bar{l}^2 + l_i^2 - (R_i - r_i)^2}{\sqrt{4l^2 l_i^2 - [\bar{l}^2 + l_i^2 - (R_i - r_i)^2]^2}},$$

where:

$$\bar{l}^2 = x^2 + (\bar{y}'' - \bar{y}')^2 + (\bar{z}'' - \bar{z}' + z_0')^2,$$

$$l_i^2 = x^2 + (y_i'' - y_i')^2 + (z_i'' - z_i' + z_0')^2,$$

$$R_i = \sqrt{(y_i'' - \bar{y}'')^2 + (z_i'' - \bar{z}'')^2},$$

$$r_i = \sqrt{(y_i' - \bar{y}')^2 + (z_i' - \bar{z}')^2},$$

$$\bar{y}' = \sum y_i' / n; \quad \bar{y}'' = \sum y_i'' / n;$$

$$\bar{z}' = \sum z_i' / n; \quad \bar{z}'' = \sum z_i'' / n \quad (1)$$

Card2/4 In the special case where the beginning of the shower lies in

Measurement of Small Angles in Nuclear Photoemulsions. 120-4-8/35

the emulsion, formula (1) has the following form:

$$\begin{aligned} \operatorname{ctg} \theta_i &= \\ &= \frac{x^2 + \bar{y}y_i + (z + z_o)(z_i + z_o)}{\sqrt{x^2[(y_i - \bar{y})^2 + (z_i - \bar{z})^2] + [\bar{y}(z_i + z_o) - y_i(z + z_o)]^2}} \end{aligned} \quad (2)$$

However, if the beginning of the shower does not lie in that layer of the emulsion in which y_i and z_i are measured, then it is necessary to take into account the difference in depth between the layers in measuring x and z_o . If the primary track is recorded, then Eq.(2) takes on a simpler form, since in that case, $\bar{y} - \bar{z} = 0$. The above method of calculation of the angles θ_i from the measured co-ordinates in the plane of the section perpendicular to the plane of the emulsion gives results with an accuracy not greater than 10%. For angles less than 1° the magnitude of the error is greater

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120-4-8/35

Measurement of Small Angles in Nuclear Photoemulsions.

than 10%. If the disintegration is caused by a neutral particle, then the accuracy of the results depends on the angle of inclination of the jet to the plane of the emulsion and decreases as this angle increases. The described method may be of interest in the experimental investigation of multiple production of particles. Fig.1 legend: Calculation of θ_i . The track OO' lies in the plane XOZ . It can be any track lying near the middle of the shower. The plane XOY is parallel to the surface of emulsion. Measurements of the co-ordinates y'_i, y''_i, z''_i, z'_i are carried out in planes perpendicular to the axis OX relative to the track OO' ; x - length of the projection of OO' , z_o - height of one end of OO' above the other. The axis of the shower need not coincide with any of the tracks of the shower.
There is 1 figure.

ASSOCIATION: Khlopin Radiation Institute of the Ac.Sc. USSR.
SUBMITTED: (Radiyevyy institut im. V.G. Khlopina AN SSSR)
AVAILABLE: February 13, 1957.
Card 4/4 Library of Congress

BERKOVICH, I.B.

20-6-11/48

AUTHORS: Zhdanov, A.P., Berkovich, I.B., Yermakova, K.I., Lepekhin, F.G., Skirda, N.V., Khokhlova, Z. S...

TITLE: An Interaction of High Energy Particles with Nuclei (O vzaimo-deystvii chastits vysokoy energii s yadrami)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1093 - 1096 (USSR)

ABSTRACT: The present paper describes the provisional results of the analysis of seven rays with relatively great number of shower particles, which were produced in the interaction with emulsion nuclei. When inspecting one particle of the staple of Ilford G-5 emulsions (Il'ford G-5), which was irradiated for seven hours in a height of about 30 km, the authors chose that irradiation which was produced by neutral and charged particles. When analysing these cases rather reliable data were obtained only on the number of shower particles and on the angular distribution of which. The angles between the direction of motion of the primary particle and the traces of the secondary particle were measured by the coordinate-method by the aid of the microscope MBI-8. The characteristics of these distributions are compared in a table. The authors graphically represented

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An Interaction of High Energy Particles with Nuclei

20-6-11/48

the dependence $(1/N) \int_0^\theta N(\theta)d\theta$ on θ . All rays were subdivided into three types. The rays of the first type, which are characterized by a narrow cone, have a symmetrical integral distribution. The rays with a considerably larger cone and a higher number of charged particles belong to the second type. A further diagram illustrates the angular distribution for such ray in which not even within the range of small angles a symmetry can be ascertained. Each theoretical investigation of the mechanism of producing elementary particles starts from the symmetrical flying off of the developed particles in the center-of-gravity system. This corresponds to a certain symmetry of the angular distribution in the laboratory system. This symmetry is actually observed in the element. The most essential statements of the theory of Fermi-Landau can be applied to these cases. There are 4 figures, 2 tables and 8 references, 3 of which are Slavic.

Card 2/3

An Interaction of High Energy Particles with Nuclei

20-6-11/48

ASSOCIATION: Radium-Institute imeni V.G. Khlopin, AN USSR
(Radiyevyy institut im. V.G. Khlopina Akademii nauk SSSR)

PRESENTED: April 4, 1957, by A.F. Ioffe, Academician

SUBMITTED: March 26, 1957

AVAILABLE: Library of Congress

Card 3/3

21(7)

AUTHORS:

Berkovich, I. B., Zhdanov, A. P., Lepekhin, F. G., Khokhlova,
Z. S. SOV/56-37-3-3/62

TITLE:

Mesonless Decays of Hyperfragments

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,
Vol 37, Nr 3(9), pp 604 - 610 (USSR)

ABSTRACT:

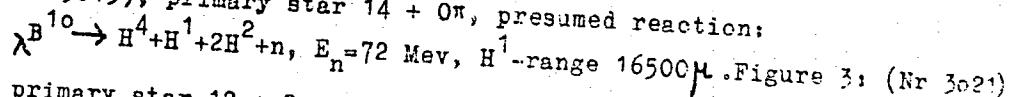
It was the aim of the investigations, which form the subject of this report, to identify some hyperfragments, which had been found in part of a G-5 emulsion pile irradiated by 4.5 Bev pions. In a systematically investigated emulsion surface of 47 cm² eight double stars were found, in which the connecting track narrowed down, one of the secondary tracks having a range > 5000 μ. These stars are ascribed to mesonless decays of hyperfragments. Micro-projections of the individual stars are shown by figures 1-8, and some particular features are discussed. A table shows the data determined from all these stars. The following is shown: Figure 1: (case Nr 264), primary star 18 + 3π, presumed reaction:
 $\lambda_6^{Li} \rightarrow H^1 + H^3 + H^3 + n$, E_n = 90 Mev, H¹-range 9900 μ. Figure 2: (case

Card 1/3

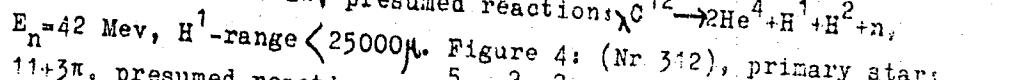
Mesonless Decays of Hyperfragments

SOV/56-37-3-3/62

Nr 3013), primary star $14 + 0\pi$, presumed reaction:

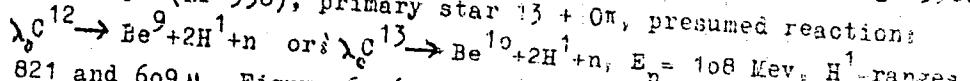


primary star $12 + 2\pi$, presumed reaction: $\lambda^C_{12} \rightarrow 2He^4 + H^1 + H^2 + n,$

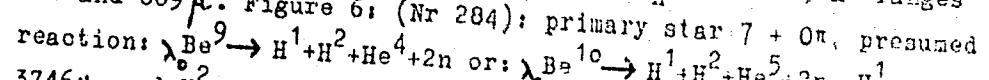


$11 + 3\pi$, presumed reaction: $\lambda_o He^5 \rightarrow H^2 + H^2 + n, E_n = 99 \text{ Mev}, H^2\text{-range } 5900\mu.$

Figure 5: (Nr 338), primary star $13 + 0\pi$, presumed reaction:



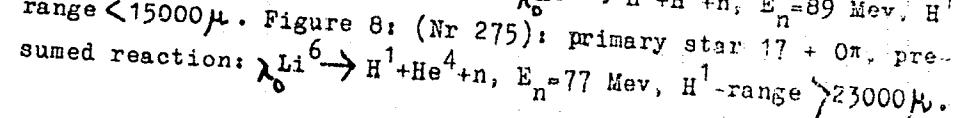
821 and 609μ . Figure 6: (Nr 284): primary star $7 + 0\pi$, presumed



3746μ and $H^2\text{-range } 2983\mu, E_n = 72 \text{ Mev. Figure 7: (Nr 2711), primary}$

star $15 + 0\pi$, presumed reaction: $\lambda_o He^5 \rightarrow H^1 + H^3 + n, E_n = 89 \text{ Mev}, H^1\text{-range } < 15000\mu.$

Figure 8: (Nr 275): primary star $17 + 0\pi$, presumed reaction:



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Mesonless Decays of Hyperfragments

SOV/56-37-3-3/62

The ranges of the hypernuclei (in the same order): 87, 16, 94.5, 50, 55, 28.5, 77.7 and 181μ . T. I. Ukolova and S. N. Meleshchenko took part in these experiments. There are 8 figures, 1 table, and 3 references.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences, USSR)

SUBMITTED: March 12, 1959 (initially) and June 2, 1959 (after revision)

Card 3/3

Berkovich, I.B.

24.6810

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S/056/60/038/02/16/061
B006/B011

AUTHORS:

Berkovich, I. B., Zhdanov, A. P., Lepekhin, F. G.,
Khokhlova, Z. S.

TITLE:

Meson-free Decays of Hyperfragments

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 38, No. 2, pp. 423-425

TEXT: Several authors had already been concerned with the experimental investigation of meson-free hyperfragment decay, and above all, with the ratio of the number of hyperfragment decays released by (Λ^0, n) interaction to the number of those released by (Λ^0, p) interaction: $R = N/P$. The authors offer a contribution to these problems and publish the numerical results of an investigation of a G-5 emulsion pile irradiated with 4.5-Bev pions. In the analysis of all two-pronged stars found in 47 cm^3 of emulsion, the authors selected 18 cases satisfying the following criteria: 1) length of the linking F-track $> 20\mu$; 2) the linking F-track becomes thinner toward the end of the range. Hyperfragments were divided into two classes. One covers the decays in which a single-charged particle

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*Meson-free Decays of Hyperfragments**82015
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occurs with a range > 3 mm, and the other all the decays in which the secondary particles were slow. The ratio of the decay number of the second type N to the first type P was $10/8 = 1.25$. A comparison of results with those from Ref. 1 shows that in all probability the interaction between Λ^0 particles and nucleons does not take place via the virtual Σ -state. Investigations were also extended to the angular distribution of hyperfragments with respect to the primary pion flux. The forward/backward ratio was equal to 2.6, whereas 2.2 ± 0.5 had been found in Ref. 2. The forward/backward ratio for lithium fragments was also determined. For Li fragment energies comparable with hyperfragment energies it was equal to unity. A table contains all measured data concerning the kinematic characteristics of the particles. There are 1 table and 3 non-Soviet references.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute
of the Academy of Sciences, USSR) *44*

SUBMITTED: August 28, 1959

Card 2/2

BERKOVICH, I.B.; ZHDANOV, A.P.; LEPEKHIN, F.G.; KHOKHLOVA, Z.S.

Cross section of the production of hypernuclei in photoemulsions
by 9 bev. protons. Zhur.eksp.i teor.fiz. 41 no.1:75-77 Jl '61.
(MIRA 14:7)

1. Radiyevyy institut AN SSSR,
(Photography, Particle track) (Nuclei, Atomic) (Protons)

L 17599-63

EED(b)-3/ES(v)

EWT(1)/FCC(w)/BDS/T-2/

AFFTC/ASD/ESD-3/AMGC/IJP(C)

S/056/63/044/003/002/053

Pe-4 GW

AUTHOR:

Berkovich, I. B., Zhdanov, A. P., Lepekhin, F. G., and
Koroleva, Z. S.

73

TITLE:

Analysis of stars containing hyperfragments produced by 9 Bev
protons in photographic emulsions

19

PERIODICAL:

Zhurnal eksperimental'noy i tekhnicheskoy fiziki, v. 44, no. 3,
1963, 793-797

TEXT: Using НИКФИ-Р (NIKFI-R) photoemulsions the authors studied the angular and energy distribution of fast, singly-charged particles which they found earlier (ZhETF, 41, 75, 1961) in 20 stars containing hyperfragments generated by 9 Bev protons. Perpendicular pulse components of K mesons and protons are 430 ± 140 Mev/c and of π mesons — 250 ± 150 Mev/c. The angular distribution of fast particles is shown on Fig. 2. The authors conclude that the primary interaction produces Λ^0 particles and K-mesons according to $N + N \rightarrow N + \Lambda^0 + K$. Other Λ^0 production channels are not present. Λ^0 particle moves backwards in the center of mass system while the K-meson and the nucleon in its final state probably form an (NK) system

Card 1/2

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Analysis of stars containing hyperfragments...

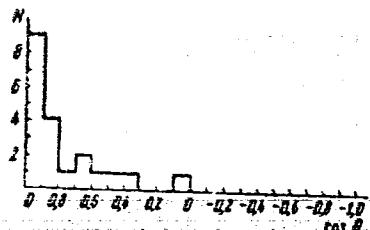


Fig. 2. Angular distribution of fast particles in stars containing hyperfragments produced by 9 Bev protons in the center of mass of two nucleons

which later desintegrates into a nucleon and a K meson. It is probable that the production of stars containing hyperfragments is accompanied by a complete absorption of cascade particles since the number of fast particles is here half of what is found in ordinary stars, and the nucleus acquires a considerable amount of energy. There are 2 figures.

SUBMITTED: July 28, 1962

Card 2/2

BERKOVICH, I.B.; ZHDANOV, A.P.; MARTYSH, G.G.; SHUR, L.I.

Injection of radioactive nuclei into a photographic emulsion.
Prib. i tekhn. eksp. 9 no.6:63-64 N-D '64.

(MIRA 18:3)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

L-51430-65

EWT(n)/EPA(ep)-2/EWA(d)/EWP(t)/EWP(k)/SWB(h)/DIA(7)

B7 4 750-1000

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CIA-RDP86-00513R000204920018-5

EWT(n)/EPA(ep)-2/EWA(d)/EWP(t)/EWP(k)/SWB(h)/DIA(7)

B7 4 750-1000

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

AMARYAN, L.S.; BERKOVICH, J.I.; AFYMAS'YAN, V.M.; ANANYAN, G.V.

Mechanical stamping press for the production of bedding plates. Biul. tekhn.-ekon. inform. nauch.-tekhn. i nauch. i tekhn. inform. 17 no. 6; 1972, p. 16...

(NEDC 37:11)

DEMGIN, N.B.; BERKOVICH, I.I.; LANKOV, A.A.

Device for studying friction surfaces. Zav. lab. 30
no.8:1020 '64.

(MIRA 18:3)

1. Kalininskiy torfyanoy institut.

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

BERKOVICH, I.M., inzh.; KUTOVOY, Ye.A., inzh.

Improving the PML-5 rock loader. Ugol' Ukr. no.6:35-36 Je '60.
(MIRA 13:7)
(Coal handling machinery)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"

VOLOSHIN, N.Ye., inzh.; RESHETNYAK, Yu.V., inzh.; BERKOVICH, I.M., inzh.; DERBASOV, T.M., inzh.; BALINCHENKO, I.I., inzh.

Sudden outbursts of sand rocks in the "Shcheglovka-Glubokaya" mine. Shakht.stroi. 6 no.9:16-19 S '62. (MIRA 15:9)

1. Opornyy punkt Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoj promyshlennosti, g.Donetsk (for Voloshin).
2. Shakhtostroitel'nyy trest Makeyevskogo rayona, Donbass (for Reshetnyak, Berkovich).
3. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoj promyshlennosti (for Derbasov).
4. Opornyy punkt Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoj promyshlennosti tresta Oktyabr'ugol' (for Balinchenco).

(Donets Basin--Rock pressure)
(Mining engineering)

NIKOLIN, V.I., kand. tekhn. nauk; BERKOVICH, I.M., inzh.

Preliminary wetting is a preventive method for sudden outbursts of rock.
Shakht. stroi. 9 no.2:6-8 F '65. (MIRA 18:4)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti
rabet v gornoy promyshlennosti (for N'kolin). 2. Shakhtostroitel'-
noye upravleniya No.5 tresta Makeyevshakhtstroy (for Berkovich).

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

BERKOVICH, I. H.

Medicine

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"APPROVED FOR RELEASE: 06/08/2000

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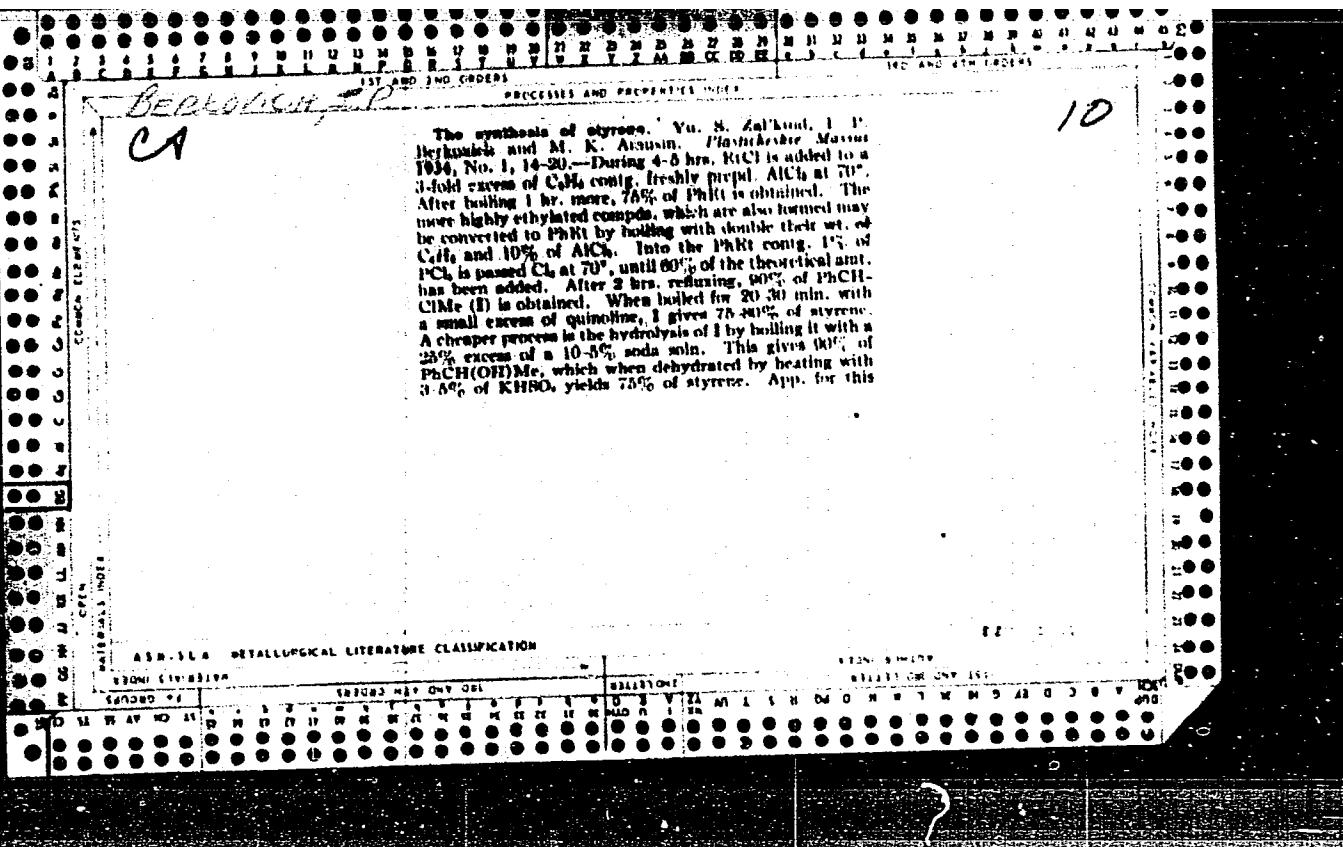
BERKOVICH, I. N.

BERKOVICH, I. N. -- "OBTAINING COLORED RESINS ON A BASE OF DIVINYLSTYROL RUBBER WITH
THE APPLICATION OF ACTIVE MINERAL FILLERS." SUB 29 DEC 52, MOSCOW INST OF FINE
CHEMICAL TECHNOLOGY IMENI M. V. LOMONOSOV (DISSERTATION FOR THE DEGREE OF CANDIDATE
IN TECHNICAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5"



BERKOVICH, I. P.

Bitumen plastics as substitutes for phenolic plastics.
I. P. Berkovich and B. D. Goldabreko. *Org. Chem. Ind.*
(U. S. S. R.) 7, 318-319 (1950). - Sheets of bitumen plastic
prepd. from coal-tar pitch and asbestos by the rolling
method have impact toughness of 12-30 kg. cm./sq. cm.
And bending resistance of 800-1500 kg./sq. cm., depend-
ing on the proportions of the components. The other
properties varied as follows: tensile strength 800-1500
kg./sq. cm., compressive strength 1000-1500 kg./sq.
cm.; heat resistance 80-110°, Brinell hardness 20-35 kg./
sq. mm., water absorption in 24 hrs. 0.01-0.03%, sur-
face elec. resistance 10^4 ohms, vol. elec. resistance 10^1
ohms/cm. cube, breakdown 6-8 kv./mm. In molding vari-
ous shapes the material is weighed, heated to 170-180°,
pressed in a hot mold for 1-2 min. at const. temp., then it is
removed, dipped in cold water and the pressing cycle re-
peated. These products should find a place as substitutes
for phenolics. R. Z. Kamich

BERKOVICH ^{IP}
BERKOVICH, I.P., MAZUR, S.V.

Increasing the water resistance of nitrocellulose ester. Khim.prom.
no.4:210-213 Je '57. IMLRA 10:9)
(Cellulose esters)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000204920018-5

✓ No recall done except for [redacted]
[redacted] [redacted] and [redacted] [redacted] [redacted]
[redacted] [redacted] [redacted] [redacted] [redacted]
[redacted] [redacted] [redacted] [redacted] [redacted]

100% REC'D.

100% REC'D.

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CIA-RDP86-00513R000204920018-5"

BERKOVICH, I.P.; ZHDANOV, A.F.; LEPEKHIN, F.G.; KHOKHOVA, Z.S.

Analysis of stars with hyperfragments produced by 9. Rev. protons in a photographic emulsion. Zhur. eksp. i teor. fiz. 44 no.3:793-797 Mr '63.

(MIRA 16:3)

(Photography, Particle track)

(Protons)

BERKOVICH, Kh. L.

USSR/Miscellaneous - Foundry processes

Card 1/1 : Pub. 61 - 21/23

Authors : Turbovskiy, M. N.; Rubakhin, A. R.; and Berkovich, Kh. L.

Title : Teapot type bucket with syphon tube made of graphite mixture

Periodical : Lit. proizv. 3, 31-32, May-June 1954

Abstract : The advantages of using teapot type buckets with graphite syphon tubes instead of refractory tubes in casting processes, are outlined. Three USSR references (1951 and 1953). Drawing.

Institution : ...

Submitted : ...

I 28695-65

ACCESSTION NO. 070-14740

Author: V. A. Kostyukovich, V. V. Moshkov, et al.

Title: Clinical and radiological effects of radiation.

SOURCE: Magyar radiologia, no. 4, 1941, pp. 277-283.

In this article the authors present a brief summary of the literature on the effects of radiation on the entire human integument. The clinical and radiobiological effects of ionizing radiation on the skin and mucous membranes are discussed. All the reported cases are presented in tables.

Keywords: Clinical and radiological effects of radiation (Radiobiological effects of radiation).

SUBMITTED: OC

ENCL: 1P

BELOBROV, P.K.; HERKOVICH, L.I.

Some geometrical remarks relate^d to the Chebyshev set center,
Uch. zap. Kaz. un. 124 no.6:31-42 '64. (MIRA 18:9)

BERKOVICH, L.M. (g. Kuybyshev).

Factorization of ordinary linear differential operators transformable
into operators with constant coefficients. Izv. vys. ucheb. zav.; mat.
no.4:8-16 '65. (MIRA 18:9)

"APPROVED FOR RELEASE: 06/08/2000

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$$H = -\frac{\hbar^2}{2m} \frac{\partial^2}{\partial x^2}$$

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